

5099 RF 93

DUE
DATE

ACTION

DIST LTR ENC

BENEDETTI, R L
BENJAMIN, A
BERMAN, H S
CARNIVAL, G J
COPP, R D
CORDOVA, R C
DAVIS, J G
FERRERA, D W
FRANZ, W A
HANNI, B J
HEALY, T J
HEDAH, T G
HILBIG, J G
HUTCHINS, N M
KIRBY, W A
KUESTER, A W
MAHAFFEY, J W
MANN, H P
MARX, G E
MCKENNA, F G
MORGAN, R V
PIZZUTO, V M
POTTER, G L
SANDLIN, N B
SATTERWHITE, D G
SCHUBERT, A L
SETLOCK, G H
SULLIVAN, M T
SWANSON, E R
WILKINSON, R B
WILSON, J M

Keith, S XX

Piburn, R XX

CORRES CONTROL x x
FATS/T130G
ADMIN RECORD/080

Reviewed for Addressee
Corres Control RFP

12-2-93
DATE BY

Re: Ltr #

DOE ORDER # 5400 /
4700 /

States Government

Memorandum

DEC 0 2 1993

ERD FRL 13499

Transmittal of Baseline Change Proposal #94-10-RFP

Autar Rampertaap, Branch Chief, Rocky Flats Branch, EM-453, HQ

This memorandum is forwarding Baseline Change Proposal (BCP) #94-10-RFP which addresses the Solar Ponds Project scope, schedule, and cost. This change is driven primarily by the dispute resolution effort which was concluded on September 30, 1993. That dispute resolution provided a substantial change in the near-term approach for the Solar Ponds Project. The magnitude of the changes in this proposal exceed the thresholds for Level I Baseline Change Control Board (BCCB) review and approval.

Action on the attached BCP #94-10-RFP is requested by the Level I BCCB. Please contact F Lockhart at (303) 966-7846, if you have questions on the package or require additional support for presentation to the Level I BCCB.



Richard J. Schassburger
Acting Director
Environmental Restoration Division

Attachment

cc
H Belencan, EM-453
J Ciocco, EM-453
D Simonson, OOM, RFO
W Thompson, USBOR
S Keith, EG&G
R Piburn, EG&G

ADMIN RECORD

United States Government

Department of Energy
Rocky Flats Office

memorandum

DATE

NOV 23 1993

REPLY TO
ATTN OF


OOM DPS 13237

SUBJECT Baseline Change Proposal Submittal to DOE Headquarters

TO Frazer Lockhart, Environmental Restoration Division, Rocky Flats Office
James A Ledford, ERM, Solar Pond Project, EG&G Rocky Flats, Inc
Ronald B Piburn, CP&B, Project Scheduling, EG&G Rocky Flats, IncReference BCP #94-10 - RFP, OU-4, Solar Ponds Projects, Scope, Schedule, and Cost
Re-Baselining

The Plant Change Control Board endorsed the above referenced Baseline Change Proposal on November 22, 1993, for submittal to the Level I Baseline Change Control Board (BCCB)

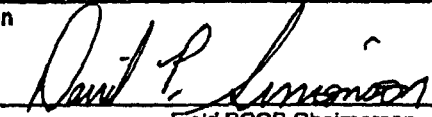
The Level I BCCB (EM-40, DOE/HQs) must review and approve this proposed change prior to site implementation


David P Simonson, Chairman
Plant Change Control Board

Attachment

cc w/Att
N Hutchins, EG&G
D Stewart, EG&G
W Franz, EG&G
R Prideaux, EG&G

EM-40 Baseline Change Proposal (BCP)

1 BCP Title RFP, OU-4, Solar Ponds Scope, Schedule, and Cost Re-baselining	2a Field Office BCP Number 94-10	3 Date Initiated November 19, 1993
	2b H Q BCP Number	4 Processing Designation <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Priority
5 Point of Contact F R Lockhart, (303) 966-4538 S R Keith, (303) 966-8541	6 BCP Approval Authority Level 0 _____ Level 1 <input checked="" type="checkbox"/> _____ Level 2 _____	7 Baseline Type Cost _____ Schedule <input checked="" type="checkbox"/> _____ Scope <input checked="" type="checkbox"/> _____
8 Change Description Redirect program to accelerate the OU4 IMIRA program (see attachment)		
9 Justification for Change The old approach prevented early action for site remediation. This change is necessary to strategically re-direct the program and accelerate site remediation		
10 Impact of Non-Approval DOE would be required to re-negotiate the affected milestones which have been approved by the EPA and CDH. In addition, DOE could be assessed IAG monetary penalties relative to the OU4 Phase I RFI/RI draft and final reports due to missed milestones		
11 Impact on Cost Baseline Total Cost <u>0</u> TPC _____ Contingency Used <u>\$1,845,774</u>	12 Impact on Funding Current year funding is not affected (see attachment)	
13 Impact on Schedule (Baseline Milestones) Impact on schedule is substantial for portions of the program (see attachment)		
14 Impact on Scope (e.g., WBS, ADS, Project Plan technical documents) Impact on scope is minimal however, the period of performance is substantial and will require EG&G to rebaseline their program to correspond with the new milestones (see attachment)		
15 Programmatic/Other Impacts (Including mitigating or corrective action as appropriate) The proposed accelerated schedule for the IMIRA Decision Document, remediation/closure of the Solar Evaporation Ponds (SEP), and restructuring of the OU4 Phase I Program, has eliminated the possibility of the EPA and CDH from imposing IAG monetary penalties associated with the missed IAG milestones for the OU4 Phase I draft and final RFI reports. Acceleration of OU4 IMIRA program by approximately 18 months will result in substantial cost savings for DOE.		
16 Field Baseline Change Control Board (Level 2) Action <input type="checkbox"/> Approved (Level 2 BCP Only) <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Endorsed (Level 0 & 1 BCP's Only) <div style="float: right; text-align: right;">  Field BCCB Chairperson 11/22/93 Date </div>		
17. DOE/HQ EM-40 BCCP Action (Level 1) <input type="checkbox"/> Approved (Level 1 BCP Only) <input type="checkbox"/> Disapproved <input type="checkbox"/> Endorsed (Level 0 & 1 BCP's Only) <div style="float: right; text-align: right;"> _____ BCCB Chairperson Date _____ EM-1 (Level 0 BCPs Only) Date </div>		
18. DOE/HQ ESAAB BCCB Action (Level 0) <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <div style="float: right; text-align: right;"> _____ ESAAB BCCB Chairperson Date </div>		

BCP No 94-10
B&R Code: EW2010201/2


2 Change Designation. ☒ Routine ☐ Priority PCCB Chairman _____

3 Is this a Construction (Capital or Expense Funded) or ER-MSA Project? Y/N **Y** (If No skip to Block 4.)

DOE Program Sponsor R. J. [Signature]
DOE Project Manager [Signature]

X	
---	--

X	
---	--


Signature

11/10/92
Date

4 Does This Affect the Contract Line Item (CLIN) Y/N? ☒ (If "No" Skip to Block 5)

_____ ☐ ☒

Y N

☒ ☐

Y ☐ N ☒

Scope		Schedule		Cost
Impact		Impact		Impact (\$)
Y	N	Y	N	

X		X	

☒ ☐ ☒ ☐ See page 4 of 8

Total	0
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PCCB Chairman. ☒ Y ☐ N David P. Simonson
Signature

11/22/23
Date

Actions Required

7 Contracting Officer Ext: Date:

ROCKY FLATS - PLANT CHANGE CONTROL BOARD (PCCB)
BASELINE CHANGE PROPOSAL (BCP)

☒ New MCS WP: Y/N

BCP No 94-10

8 Description of Change (For each Work Package include the Work Package approved budget.)

☒ Y/N - Does this change affect any of the following: DOE Milestones, HQ's agreements, external agency understanding, regulation compliance, or the site mission. If yes, include explanation of affect.

In June 1993, the DOE, EPA, and CDH entered into Dispute Resolution for the OU4 Phase I RFI/RI draft and final reports in accordance with the Rocky Flats Interagency Agreement. In late September 1993, DOE, EPA, and CDH came to resolution on all issues associated with OU4 relative to the Dispute Resolution process.

In general, DOE, EPA, and CDH agreed to accelerate the OU4 IM/IRA program. The construction associated with the OU4 IM/IRA program IAG baseline was scheduled for January 1997. The revised construction date is now scheduled for September 1995. The DOE, EPA, and CDH have condensed the baseline schedule by approximately 16 months. In addition to accelerating the OU4 IM/IRA program, DOE, EPA, and CDH have agreed to the following:

Incorporate the OU4 Phase I RFI/RI Report into the IM/IRA Decision Document,
Incorporate the OU4 Phase II RFI/RI Work Plan into the IM/IRA Decision Document,
Incorporate the Post-Closure Care and Monitoring Plan into the IM/IRA Decision Document,
Enhance the IM/IRA Conceptual Design from approximately 25% to 40%, and
Omit the Title I design package.

Although the additional scope is minimal, the period of performance is substantial and will require EG&G to re-baseline their program to correspond with the new milestones.

See attachment pages 5 through 7 for a detailed description of the change and (CLIN #1 milestones affected page 7)

9 Justification of Change

The old approach prevented early action for site remediation. This change is necessary to strategically redirect the program and potentially accelerate site remediation.

10 Impact if not Approved

In the event the proposed baseline is not authorized, the DOE would be required to re-negotiate the affected milestones, which have been approved by the EPA and CDH. In addition, the DOE could be assessed IAG monetary penalties relative to the OU4 Phase I RFI/RI draft and final reports due to missed milestones.

11 Central Planning & Budgets

CP&B Representative

J. F. Pennell



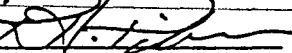
Ext. 6943

Approval Date

11/10/93

CP&B Manager

R. H. Piburn



Ext. 8011

Approval Date

11-11-93

12. Database Updates

EG&G Change Control Coord

Ext.

Approval Date

EG&G Project Control Office.

Ext.

Approval Date

**ROCKY FLATS PLANT - ENVIRONMENTAL RESTORATION PROJECT
CONTRACTOR CHANGE CONTROL BOARD (CCCCB)
Baseline Change Proposal (BCP)**

1 Contractor BCP Number ERM-010-94	2 Originator (Name & Ext.) J.A. Ledford / 8673	3 Date Initiated 11/10/93			
4 BCP Title RFP, OUY Solar Ponds Project, Scope, Schedule, and Cost Re-baselining	5 Cognizant Mgr (Name & Ext.) J.A. Ledford / 8673 ARKIEC (As JAL) Concurrence & Date	6 Central Planning & Budgeting (Name & Ext.) JEPennell / 6943 JEPennell / 11-10-93 Concurrence & Date			
7 Priority Designation Emergency _____ Priority <input checked="" type="checkbox"/> _____ Routine _____	8 Approval Authority Class 1 <input checked="" type="checkbox"/> _____ Class 2 _____ Class 3 _____	9 Baseline Type Cost <input checked="" type="checkbox"/> _____ Schedule <input checked="" type="checkbox"/> _____ Technical <input checked="" type="checkbox"/> _____			
10 Change Description See attached PCCB BCP for detailed description					
11 Justification for Change The old approach prevented early action for site remediation. This change is necessary to strategically redirect the program and potentially accelerate site remediation.					
12 Impact of Non-Approval In the event of non-approval, DOE would be required to re-negotiate the affected milestones, which have been approved by the EPA and CDH. In addition, DOE could be assessed a monetary penalty relative to the OUY Phase I RFI/RI draft and final reports due to missed milestones.					
13 Baseline Impact Details					
WBS Number	WBS Title	Cog. Mgr Signature	Scope Impact Y/N	Sched Impact Y/N	Cost Impact (\$)
12159	RCRA Facility Investigation	J.A. Ledford	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(676,584)
12162	Interim Measure Decision		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(1,002,183)
12165	Phase II RCRA Facility Investigation	J.A. Ledford	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(166,251)
12173	Performance Monitoring		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	798,567
12180	Pre-Construction	J.A. Ledford	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	433,528
12183	Conceptual Design		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	521,571
12185	Title II Design	J.A. Ledford	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1,624,594
12175	Contingency		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(1,845,774)
Funded by _____ MR, <input checked="" type="checkbox"/> Cont, _____ Authorized Funds					Cost Total 0
14 CCCB (Class 3) BCP Action ____ Approved ____ Cond. Approved ____ Info Requested ____ Disapproved [Signature] ER Deputy Project Manager			11-10-93 Date		
15 CCCB (Class ____) BCP Action ____ Approved ____ Cond. Approved ____ Info Requested ____ Disapproved <input checked="" type="checkbox"/> Endorsed _____ CCCB Chairperson			_____ Date		
16 PjCCB (Class 1) BCP Action <input checked="" type="checkbox"/> Approved ____ Cond. Approved ____ Info Requested ____ Disapproved ____ Endorsed [Signature] PjCCB Chairperson			16/10/93 10-10-93 Date		

**RFP, OU-4; Solar Ponds Projects
Scope, Schedule, and Cost Change Proposal
(BCP No. 94-10)**

Background

The Solar Ponds Projects (SPP) is comprised of four major tasks, 1) pond sludge processing per the Agreement in Principle between the Department of Energy (DOE) and Colorado Department of Health (CDH), 2) water management/treatment per the Interim Measure/Interim Remedial Action Decision Document signed by DOE, Environmental Protection Agency (EPA), and CDH, 3) the Operating Unit 4 (OU-4) assessment and remedial action per the Interagency Agreement (IAG), and 4) pad operations and storage activities which are necessary to meet the plant's Resource Conservation and Recovery Act (RCRA) interim status and permit requirements with regard to storage of pond waste material (sludge). The IAG identified the ponds as one of sixteen operable units (OU) to be remediated at Rocky Flats and invoked the 1988 ponds-closure plan. The water management and pond sludge clean-out are necessary precursors to OU-4 assessment and remediation, and pad operations are necessary support activities at least until the sludge is disposed. Each of these major tasks is managed through a Work Package. There are also Work Packages for associated field projects.

The four major tasks were planned as the means to close the ponds and remediate the ponds area. In roughly chronological sequence, the project was scoped to remove water from the ponds, provide a treatment facility to replace the ponds as evaporation, treatment, and storage units for contaminated ground water; remove and dispose of sludge in compliance with all regulations such as the Land Disposal Restrictions of RCRA, assess the nature and extent of contamination at the ponds, complete a RCRA closure of the impoundments, and perform surveillance of the ponds area as needed.

Current Status and Accomplishments

EG&G Solar Ponds Projects (SPP) has been reorganized to include all functions under the Environmental Restoration Management charter which has substantially improved the program integrity. The SPP is currently managing a number of Rocky Flats Interagency Agreement (IAG) activities including the following:

- OU4 Phase I RFI/RI Project
- OU4 Phase I IM/IRA Project (includes all design requirements)
- OU4 Post Closure Care and Monitoring Project
- OU4 Phase II RFI/RI Project

EG&G is currently drilling and sampling within the Solar Evaporation Ponds (SEP), specifically Ponds 207B North and 207B Center in support of the OU4 Phase I RFI/RI Report, scheduled to be submitted to the U.S. Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) on April 14, 1993. In addition, EG&G is currently developing a Phase I IM/IRA Decision Document which shall include the Phase I RFI/RI Report, Post Closure Assessment Plan and Phase II RFI/RI Work Plan. EG&G has identified a variety of technological options for remediating/closing the SEP and will select a preferred alternative by the latter part of November 1993. In addition, EG&G is in the process of preparing the OU4 Phase I RFI/RI Report, which, as stated above, shall be an inclusion within the OU4 IM/IRA Decision Document. The OU4 Phase I RFI/RI Report will summarize the Phase I RFI/RI field activities and the data collected.

relative to source and soils characterization. The Phase I investigation began in November 1992 and was nearly completed by March 1993. Due to the ponds not being emptied of sludge and water, the remaining drilling and sampling was postponed until the ponds were suitable for drilling. Again, the drilling and sampling activity is being conducted at this time.

Details For Section 5: "Baseline Impacts"

Impact On Scope

The following table describes the proposed changes in scope on a Work Package-by-Work Package basis.

WORK PACKAGE NUMBER	TITLE	CURRENT BASELINE	PROPOSED BASELINE
12159	RCRA Facility Investigation	The scope of this Work Package includes drilling, sampling, data evaluation, baseline risk assessment, horizontal drilling, and report preparation.	The revised scope includes the elimination of the baseline risk assessment, horizontal drilling, comment resolution for the Phase I RFI/RI Report, and report modifications.
12162	Interim Measure Decision	The scope of this Work Package includes the development of COCs, PRGs, ARARs, technology research and evaluation, selection of a remediation/closure alternative, preparation of the IM/IRA DD and development of the conceptual design.	The revised scope includes incorporation of the conceptual design, including the Phase I RFI/RI Report, Post Closure Assessment Plan and Phase II Work Plan into the IM/IRA DD, completing the public comment period for the IM/IRA, and accelerating the schedule, which includes additional milestones and review and comment cycles.
12165	Phase II RCRA Facility Investigation	The scope of this Work Package includes the development of a Phase II RFI/RI Work Plan, review and comment cycles, and document revision.	The revised scope includes elimination of the review cycles, work plan revision, and development of the final Phase II RFI/RI Work Plan.
12173	Performance Monitoring	Not Applicable	The scope of this work package includes technical support relative to the IM/IRA Program, development of a Post Closure Assessment Plan, review and comment of Post Closure Plan and document revision.
12180	Pre-Construction	Not Applicable	The scope of this work package will be to provide for qualification of potential bidders for the Title II Remedial Design, development of the Safety Analysis Document and Security Plan, configuration of the IWCP package, and Building 788 oversight.

12183	Conceptual Design	Not Applicable	The scope of this work package will be to provide an Enhanced Conceptual Design (ECD) of the selected remedial alternative which includes the post closure care and monitoring scope. The ECD shall provide sufficient detail to allow Title I to be bypassed and development of Title II Design to begin.
12185	Title II Design	Not Applicable	The scope of this Work Package will be to provide drawings and fixed price construction specifications for the selected remedial alternative, including the post closure care and monitoring requirements.
12175	Contingency	Scope Uncertainties	Scope Uncertainties

All other work packages associated with this ADS are unaffected. Specifically the Work Packages not affected by this BCP are 12150, 12153, 12157, 12169, 12170, 12171, 12174, 12176, 12178, 12179, 12187, and 12188.

Details For Section 5: "Baseline Impacts" (continued)

Impact On Funding

The following table describes the proposed changes in funding on a Work Package-by-Work Package basis

WORK PACKAGE NUMBER	TITLE	CURRENT FY94 BASELINE	PROPOSED CHANGE	PROPOSED FY94 BASELINE	JUSTIFICATION
12159	RCRA Facility Investigation	\$ 2,341,210	\$ (676,584)	\$ 1,664,626	Program Redirection
12162	Interim Measure Decision	\$ 3,089,734	\$ (1,002,183)	\$ 2,087,551	Program Redirection
12165	Phase II RCRA Facility investigation	\$ 526,513	\$ 166,281	\$ 692,794	Program Redirection
12173	Performance Monitoring	\$ 0	\$ 798,567	\$ 798,567	Program Redirection
12180	Pre-Construction	\$ 0	\$ 433,528	\$ 433,528	Program Redirection
12183	Conceptual Design	\$ 0	\$ 501,571	\$ 501,571	Program Redirection
12185	Title II Design	\$ 0	\$ 1,624,594	\$ 1,624,594	Program Redirection
12175	Contingency	\$ 1,945,987	\$ (1,845,774)	\$ 100,213	Program Redirection
	TOTAL	\$ 7,903,444	\$ 0	\$ 7,903,444	

Funding Sources

The impact to the current FY94 Solar Ponds baseline excluding contingency as a result of this BCP is an increase of \$1,845,774 SPP currently has \$1,945,987 in Contingency Work Package 12175 which will provide adequate funds for the revised baseline This will decrease Contingency Work Package 12175 to \$100,213

Impact On Schedule

The attached schedule depicts the proposed schedule changes

Programmatic/Other Impacts

The proposed accelerated schedule for the IM/IRA Decision Document, remediation/closure of the Solar Evaporation Ponds (SEP), and re-structuring of the OU4 Phase I Program has eliminated the possibility of the Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) from imposing IAG monetary penalties associated with the missed IAG milestones for the OU4 Phase I draft and final RFI/RI Reports In addition, accelerating the OU4 IM/IRA program by approximately 18 months shall result in substantial cost savings for DOE

Details For Section 8: "Description of Change"

Background Description

In June 1993, the DOE, EPA, and CDH entered into Dispute Resolution for the OU4 Phase I RFI/RI draft and final reports in accordance with the Rocky Flats Interagency Agreement. In late September 1993, DOE, EPA, and CDH came to resolution on all issues associated with OU4 relative to the Dispute Resolution process.

In general, DOE, EPA, and CDH agreed to "accelerate" the OU4 IM/IRA program. The construction associated with the OU4 IM/IRA program IAG baseline was scheduled for January 1997. The revised construction date is now scheduled for September 1995. The DOE, EPA, and CDH have condensed the baseline schedule by approximately 16 months. In addition to accelerating the OU4 IM/IRA program, DOE, EPA, and CDH have agreed to the following:

- Incorporate the OU4 Phase I RFI/RI Report into the IM/IRA Decision Document,

- Incorporate the OU4 Phase II RFI/RI Work Plan into the IM/IRA Decision Document,

- Incorporate the Post-Closure Care and Monitoring Plan into the IM/IRA Decision Document,

- Enhance the IM/IRA Conceptual Design from approximately 25% to 40%, and

- Omit the Title I design package.

Although the additional scope is minimal, the period of performance is substantially reduced and will require EG&G to re-baseline their program to correspond with the new milestones.

Description of Change

The Closure action planned and budgeted for consists of installation of a RCRA cap which would remove the transportation pathway for migration outside the OU4 boundary. The RCRA cap would eliminate the infiltration of precipitation through the soils which allow contaminants to migrate into the groundwater or are carried by precipitation surface flow to other surface soils outside of OU4.

To allow for the installation of a RCRA cap within the OU4 boundary, Building 788 which is located between pond 207C and 207A must be removed. This effort is being planned through D&D.

In an effort to accelerate the closure of the surface impoundments, an Enhanced Conceptual Design (ECD) will be prepared which will allow the Title I Design period to be bypassed and allow Title II design to proceed. The ECD, which will be incorporated into the streamlined IM/IRA decision document, will implement the selected remedial alternative for the pond closure (which has been planned and scheduled assuming a RCRA cap) and include the scope of the post closure care and monitoring requirements for the selected alternative. The Title II design will provide the final drawings and fixed price construction specifications for closure of the selected alternative.

Details For Section 8. "Description of Change" (continued)

To expedite the construction of the selected alternative, procurement of potential construction contractors will begin after the ECD is completed. Interested construction contractors will be solicited through the Commerce Business Daily. All interested parties will then be pre-qualified prior to completion of the Title II Design. After completion of the Title II design, the package will be distributed to the pre-qualified construction contractors for proposals.

The revised streamlined IM/IRA document has been revised to include the following major activities:

- Phase I RFI/RI
The RFI/RI will discuss the results of the field investigations conducted at OU4 site to determine the nature and extent of contamination found.
- Technology and Alternative Development
After identification of the types of contaminants found at the OU4 site, risk analysis methodology will be utilized to establish which contaminants pose credible risks which must be addressed and which technologies are available which can reduce the risk to 1×10^{-6} .
- Recommended Remedial Alternative
An Enhanced Conceptual Design will be developed for selected remedial alternative. This information along with the post closure care and monitoring scope will be included in the streamlined IM/IRA document. The Enhanced Conceptual Design will provide sufficient detail to allow the Title I effort to be bypassed and allow for cost and schedule development to ensure the alternative can be implemented within the established milestone agreements.
- Post Closure Care and Monitoring
After selection of the recommended remedial alternative, the post closure care and monitoring requirements can be identified. This will include instrumentation and equipment required to ensure the alternative is performing as designed and maintenance required to ensure the integrity of the alternative is not compromised.
- Title II Design
The Title II design of the recommended remedial alternative will develop the Enhanced Conceptual Design effort into final drawings and fixed price construction specifications. The effort will also incorporate the post closure care and monitor equipment installation requirements.
- Phase II Work Plan
The OU4 Phase II RFI/RI Work Plan is an IAG requirement, which shall be designed to characterize the alluvial and bedrock ground water systems.

Details For Section 8: "Description of Change" (continued)

DOE Milestones Affected by the Changes

COST ACCOUNT NUMBER	OU-4 SOLAR PONDS	ACTIVITY NUMBER	DESCRIPTION	CURRENT DATE	REVISED DATE
AA04	OU-4 Solar Ponds	CDMR	Complete DOE Mid Year Review on Work Packages(12159 12162 12165) - External	03/23/94	03/23/94

WORK PACKAGE NUMBER	OU-4 SOLAR PONDS	ACTIVITY NUMBER	DESCRIPTION	CURRENT DATE	REVISED DATE
12159	RCRA Facility Investigation	01010	Draft Contam of Concern Tech Memo - External	10/7/93	OBE*
12159	RCRA Facility Investigation	02010	Draft Toxicity Assessment Tech Memo - External	10/7/93	OBE*
12159	RCRA Facility Investigation	01020	Final Contam of Concern Tech Memo - External	1/10/94	OBE*
12159	RCRA Facility Investigation	02020	Final Toxicity Assessment Tech Memo - External	1/10/94	OBE*
12159	RCRA Facility Investigation	04010	Draft Phase I RFI/RI Report - External	4/15/94	OBE*
12159	RCRA Facility Investigation	04020**	Final Phase I RFI/RI Report - External	9/16/94	OBE*
12162	Interim Measure Decision	00061**	Provide DOE & EPA/CDH Draft Copy IM/Transmittal Round Table Review - External	4/13/94	2/25/94
12162	Interim Measure Decision	00071**	Submit Phase I Proposed IM/IRA DD - External	9/8/94	OBE*
12165	Phase II RCRA Facility Investigation	0060	Submit Draft Phase II RFI/RI Work Plan to DOE - External	3/1/94	OBE*
12165	Phase II RCRA Facility Investigation	0100**	Submit Draft Phase II RFI/RI Work Plan to EPA and CDH - External	4/22/94	OBE*
12165	Phase II RCRA Facility Investigation	0140	Submit Final Phase II RFI/RI Work Plan to DOE - External	7/28/94	OBE*
12165	Phase II RCRA Facility Investigation	0180** 01060**	Submit Final Phase II RFI/RI Work Plan to EPA/CDH - External	9/19/94	OBE*
12162	Interim Measure Decision	32119	Transmittal (Phase I Draft Review) IAG #1 - External	NA	4/14/94
12162	Interim Measure Decision	32121	Transmittal (Phase I Review) IAG #2 - External	NA	6/24/94
12162	Interim Measure Decision	32123	Transmittal (Draft Resp Summary Review) IAG #3 - External	NA	11/1/94
12162	Interim Measure Decision	32125	Transmittal (Final DD & Resp Summary Review) IAG #4 - External	NA	1/13/95
12185	Title II Design	32238	Transmittal (Implementation Document) IAG #5 - External	NA	2/10/95
12185	Title II Design	25009	60% Transmittal (Title II) - External	NA	7/8/94
12185	Title II Design	35009	90% Transmittal (Title II) - External	NA	10/5/94
12180	Pre-Construction	32417	Start Construction IAG #6 - External	NA	9/27/95

*OBE Overcome-by Events

** Block 4 - CLIN Level Impacted Milestones

Details For Section 9: "Justification of Change"

Details For Section 9: "Justification of Change"

The old approach prevented early action for site remediation. This change is necessary to strategically redirect the program and accelerate site remediation.

Details For Section 10: "Impact if not Approved"

In the event the proposed baseline is not authorized, the DOE would be required to re-negotiate the affected milestones, which have been approved by the EPA and CDH. In addition, the DOE could be assessed IAG monetary penalties relative to the OU4 Phase I RFI/RI draft and final reports due to missed milestones.